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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

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BULLETIN No. 67.

PLANT DISEASES DIVISION BULLETIN No. 21.

A LIST OF PLANT DISEASES RECORDED IN NEW ZEALAND.

By

R. M. BRIEN,

Plant Diseases Division, Plant Research Bureau, Department of Scientific and Industrial Research.

WELLINGTON, N.Z.
E. V. PAUL, GOVERNMENT PRINTER.
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INTRODUCTION.

THE present work constitutes a list of 411 plant diseases recorded to date in New Zealand. It includes diseases of fungous, bacterial, virus, and physiological origin.

The year 1920 has been adopted as the date from which most references can be accepted as valid, since this year marks the beginning of systematic mycological study in New Zealand. Exceptions have been made in the case of certain common plant diseases where diagnoses have obviously been correct, and in such instances the earlier references have been cited.

The list is arranged under botanical names of hosts. Literature references and an index of pathogens and physiological diseases are appended. Reference is made only to those diseases occurring in nature, no records of artificially infected hosts being given.

Virus diseases have been listed under their common names, but where possible have been classified according to the recent classification by Dr. K. M. Smith in "A Text-book of Plant Virus Diseases," 1937.

The writer wishes to acknowledge the material assistance given by other officers of the Division in the compilation of this list. Special acknowledgment is made to Dr. H. H. Allan, Dominion Botanist, for checking botanical names of hosts.

A LIST
OF
PLANT DISEASES RECORDED IN NEW ZEALAND.

By R. M. Brien, Plant Diseases Division, Plant Research Bureau, Department of Scientific and Industrial Research.

Acacia armata R. Br.
Uromycladium tepperianum (Sacc.) McAlp. .. Cunningham, 1923A.

Acacia dealbata Link.
Uromycladium acaciae (Cke.) Syd. .. .. Cunningham, 1931A.
Uromycladium notabile (Ludw.) McAlp. .. Cunningham, 1923A.

Acacia decurrens Willd.
Uromycladium acaciae (Cke.) Syd. .. .. Cunningham, 1931A.
Uromycladium notabile (Ludw.) McAlp. .. Cunningham, 1923A.

Acacia melanoxylon R. Br.
Uromycladium robinsoni McAlp. .. .. Cunningham, 1923A.

Acacia verticillata Willd.
Uromycladium notabile (Ludw.) McAlp. .. Cunningham, 1931A.

Acaena microphylla Hook. f.
Phragmidium acaenae G. H. Cunn. .. .. Cunningham, 1924A.

Acaena novæ-zelandiæ Kirk.
Phragmidium novae-zelandiae G. H. Cunn. .. Cunningham, 1924A.

Acaena novæ-zelandiæ var. **pallida** Kirk.
Phragmidium acaenae G. H. Cunn. .. .. Cunningham, 1931A.

Acaena ovina A. Cunn.
Phragmidium acaenae G. H. Cunn. .. .. Cunningham, 1931A.

Acaena sanguisorbæ var. **pilosa** × var. **pusilla.**
Phragmidium subsimile G. H. Cunn. .. .. Cunningham, 1931A.

Acaena sanguisorbæ Vahl. var. **pilosa** Kirk.
Phragmidium subsimile G. H. Cunn. .. .. Cunningham, 1924A.

Acaena sanguisorbæ Vahl. var. **pusilla** Bitt.
Phragmidium subsimile G. H. Cunn. .. .. Cunningham, 1931A.

Acaena sanguisorbæ Vahl. var. **sericei-nitens** Bitt.
Phragmidium acuminatum G. H. Cunn. .. Cunningham, 1930.

Acer sp.
Nectria cinnabarina (Tode) Fr. .. .. Cunningham, 1925A.

Aciphylla lyallii Hook. f.
Parasphaeria contraria Syd. .. .. .. Sydow, 1924.

Aciphylla monroi Hook. f.
Puccinia grahami G. H. Cunn. .. .. Cunningham, 1928.

Aciphylla monroi × **colensoi.**
Puccinia grahami G. H. Cunn. .. .. Cunningham, 1928.

Adiantum affine Willd.
Botrytis cinerea Pers. .. .. .. New record.

Aesculus hippocastanum L.
Nectria cinnabarina (Tode) Fr. .. .. Cunningham, 1925A.

Agathis australis Salisb.
Pestalozzia funerea Desm. .. .. .. Birch, 1933.

Agropyron repens Beauv.
Claviceps purpurea (Fr.) Tul. .. .. .. New record.
Ustilago hypodytes (Schlecht.) Fr. .. .. Cunningham, 1926B.

Agropyron scabrum (Lab.) Beauv.
Puccinia graminis Pers. .. .. .. Cunningham, 1924B.
Ustilago bullata Berk. .. .. .. Cunningham, 1927B.

Agrostis tenuis Sibth.
Claviceps purpurea (Fr.) Tul. .. .. .. New record.
Corticium fuciforme (Berk.) Wakef. .. .. Cunningham, 1922B.
Corticium vagum Berk. & Curt. .. .. Brien, 1935.
Tilletia decipiens (Pers.) Koern. .. .. Cunningham, 1924C.

Allium cepa L.
Aspergillus niger Van Tiegh. .. .. .. New record.
Botrytis allii Munn. .. .. .. New record.
Macrosporium parasiticum Thuem. .. .. Cunningham, 1922A.
Peronospora schleideni Ung. .. .. .. Kirk, 1905.
Sclerotium cepivorum Berk. .. .. .. Cunningham, 1922A.
Urocystis cepulae Frost. .. .. .. Gibbs, 1938.

Yellow-dwarf—*Allium virus* 1 of Smith, 1937 .. New record.

Allium porrum L.
Peronospora schleideni Ung. .. .. .. Cunningham, 1922A.

Althæa rosea Cav.
Puccinia malvacearum Bert. .. .. .. Cunningham, 1923A.

Anemone hortensis L.
Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937 Chamberlain & Taylor, 1938.

Anemone sp. cult.
Erysiphe polygoni DC. .. .. .. New record.
Puccinia pruni-spinosae Pers. .. .. .. Cunningham, 1923A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. New record.

Anemone tenuicaulis (Cheesem.) Parkin & Sledge.
Tuburcinia novae-zelandiae G. H. Cunn. .. Cunningham, 1928.

Angelica geniculata (Forst. f.) Hook. f.
Puccinia kinseyi G. H. Cunn. .. .. Cunningham, 1928.

Angelica montana (Forst.) Ckn.
Puccinia cuniculi G. H. Cunn. .. .. Cunningham, 1923A.

Angelica rosæfolia Hook. f.
Puccinia koherika G. H. Cunn. .. .. Cunningham, 1930.

Anisotome aromatica Hook. f.
Puccinia kopoti G. H. Cunn. .. .. .. Cunningham, 1923A.

Anisotome capillifolia (Cheesem.) Ckn.
Puccinia whakatipu G. H. Cunn. .. .. Cunningham, 1924A.

Anisotome filifolia (Hook. f.) Ckn. and Laing.
Puccinia namua G. H. Cunn. .. .. Cunningham, 1924A.

Anisotome haastii (F. v. M. ex Hook. f.) Ckn. & Laing.
Puccinia anisotominis G. H. Cunn. .. .. Cunningham, 1924A.

Anisotome imbricata (Hook. f.) Ckn.
Puccinia whakatipu G. H. Cunn. .. .. Cunningham, 1928.

Anisotome intermedia Hook. f.
Puccinia kopoti G. H. Cunn. .. .. .. Cunningham, 1928.

Anisotome latifolia Hook. f.
Uredo inflata Cke. .. .. Cunningham, 1924A.

Anisotome petræa Cheesem.
Puccinia whakatipu G. H. Cunn. .. .. Cunningham, 1928.

Anisotome pilifera (Hook. f.) Ckn. & Laing.
Puccinia kopoti G. H. Cunn. .. .. .. Cunningham, 1928.

Anthoxanthum odoratum L.
Tilletia anthoxanthi Blytt. .. .. .. Cunningham, 1928.
Ustilago readeri Syd. .. .. .. Cunningham, 1924C.

Antirrhinum majus L.
Botrytis cinerea Pers. .. .. .. New record.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.
Septoria antirrhini Rob. & Desm. .. .. New record.

Apium filiforme (A. Rich.) Hook. f.
Puccinia thuemeni McAlp. .. .. .. Cunningham, 1931A.

Apium graveolens L.
Cercospora apii Fres. .. .. .. Kirk, 1906.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.
Septoria apii Chester. .. .. .. Cunningham, 1922A.

Apium prostratum (DC.) Lab.
Puccinia thuemeni McAlp. .. .. .. Cunningham, 1923A.

Aristotelia colensoi Hook. f.
Aecidium milleri G. H. Cunn. .. .. Cunningham, 1931A.

Aristotelia fruticosa Hook. f.
Aecidium milleri G. H. Cunn. .. .. Cunningham, 1931A.

Aristotelia fruticosa × serrata.
Aecidium milleri G. H. Cunn. .. .. Cunningham, 1931A.

Aristotelia serrata (Forst.) Oliver.
Aecidium milleri G. H. Cunn. .. .. Cunningham, 1924A.
Erysiphe polygoni DC. .. .. .. Salmon, 1908.

Arnundo conspicua Forst. f.
Uredo toetoe G. H. Cunn. .. .. .. Cunningham, 1924A.

Arrhenatherum elatius (L.) Beauv.
Ustilago avenae Jens. .. .. .. Cunningham, 1924C.

Asperella gracilis (Hook. f.) Kirk.
Ustilago asprellae G. H. Cunn. .. .. Cunningham, 1930

Asperula perpusilla Hook. f.
Puccinia punctata Link. .. .. .. Cunningham, 1924A.

Avena fatua L.

Puccinia graminis Pers. .. .. .. Cunningham, 1931A.
Ustilago avenae Jens... .. .. .. Cunningham, 1928.

Avena sativa L.

Erysiphe graminis DC. .. .. .. Kirk, 1901.
Helminthosporium avenae Eid. .. .. Kirk, 1906.
Puccinia coronata Cda. .. .. .. Cunningham, 1922B.
Puccinia graminis Pers. .. .. .. Kirk, 1894.
Septoria graminum Desm. .. .. .. Cunningham, 1927D.
Ustilago avenae Jens. .. .. .. Kirk, 1906.
Ustilago kolleri Wille. .. .. .. Cunningham, 1927B

Bacterium coronafaciens Elliott .. .. Reid, 1938.

Avena strigosa L.

Puccinia graminis Pers. .. .. .. Cunningham, 1931A.

Bellis perennis L.

Puccinia distincta McAlp. .. .. .. Cunningham, 1923A.

Beta vulgaris L.

Botrytis cinerea Pers. .. .. New record.
Cercospora beticola Sacc. .. .. .. Cunningham, 1922A.
Phoma betae (Oud.) Frank. .. .. .. Kirk, 1906.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.
Sclerotium rolfsii Sacc. .. .. .. New record.
Uromyces betae (Pers.) Lev. .. .. .. Kirk, 1901.

Betula alba L.

Melampsoridium betulinum (Tul.) Kleb. .. .. Cunningham, 1924A.
Nectria cinnabarina (Tode) Fr. .. .. Cunningham, 1925A.
Stereum purpureum Pers. .. .. .. Cunningham, 1925A.

Brassica campestris L.

Plasmodiophora brassicae Woron. .. .. Gibbs, 1932.

Brassica napo-brassica DC.

Cystopus candidus (Pers.) Lev. .. .. Kirk, 1907.
Erysiphe polygoni DC. .. .. .. Cunningham, 1922B.
Peronospora parasitica (Pers.) Tul. .. .. Cunningham, 1922B.
Phoma lingam (Tode) Desm. .. .. .. Kirk, 1905.
Plasmodiophora brassicae Woron. .. .. Kirk, 1894.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Bacillus campestris Pammel. .. .. .. New record.
Bacillus melonis Geddings. .. .. .. New record.

Turnip-mosaic (not classified) .. .. .. Chamberlain, 1936A.

Brown-heart (physiological) .. .. .. Waters, 1927.

Brassica napus L.

Cystopus candidus (Pers.) Lev. .. .. .. Cunningham, 1922B.
Erysiphe polygoni DC. .. .. .. Cunningham, 1922B.
Peronospora parasitica (Pers.) Tul. .. .. Cunningham, 1922B.
Phoma lingam (Tode) Desm. .. .. .. Neill & Brien, 1933.
Plasmodiophora brassicae Woron. .. .. Kirk, 1894.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Turnip-mosaic (not classified) .. .. .. Chamberlain, 1936A.

Brassica oleracea L.

Corticium vagum Berk. & Curt.	New record.
Cystopus candidus (Pers.) Lev.	Kirk, 1907.
Mycosphaerella brassicicola (Fr.) Lind.	Kirk, 1906.
Peronospora parasitica (Pers.) Tul.	Kirk, 1906.
Phoma lingam (Tode) Desm.	Cunningham, 1922A.
Plasmodiophora brassicae Woron.	Kirk, 1894.
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.

Brassica oleracea L. var. **acephala** DC.

Plasmodiophora brassicae Woron.	Cunningham, 1922A.
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.

Brassica oleracea L. var. **ramosa** Alef.

Mycosphaerella brassicicola (Fr.) Lind.	New record.
Phoma lingam (Tode) Desm.	Neill & Brien, 1933.
Plasmodiophora brassicae Woron.	Cunningham, 1922A.
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.

Brassica rapa L.

Cystopus candidus (Pers.) Lev.	Kirk, 1907.
Erysiphe polygoni DC.	Kirk, 1907.
Peronospora parasitica (Pers.) Tul.	Cunningham, 1922B.
Phoma lingam (Tode) Desm.	Kirk, 1907.
Plasmodiophora brassicae Woron.	Kirk, 1894.
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.
Bacillus campestris Pammel.	New record.
Bacillus melonis Geddings.	New record.
Turnip-mosaic (not classified)	Chamberlain, 1936A.
Brown-heart (physiological)	Waters, 1927.

Brassica oleracea L. var. **botrytis** L.

Cystopus candidus (Pers.) Lev.	Cunningham, 1922A.
Erysiphe polygoni DC.	New record.
Mycosphaerella brassicicola (Fr.) Lind.	Cunningham, 1922A.
Peronospora parasitica (Pers.) Tul.	Cunningham, 1922A.
Plasmodiophora brassicae Woron.	Kirk, 1894.

Brassica oleracea L. var. **gemmifera Zenk.**

Cystopus candidus Pers. Lev.	Cunningham, 1922A.
Mycosphaerella brassicicola (Fr.) Lind.	Cunningham, 1922A.
Peronospora parasitica (Pers.) Tul.	Cunningham, 1922A.
Plasmodiophora brassicae Woron.	Cunningham, 1922A.

Bromus hordeaceus L.

Puccinia elymi West.	Cunningham, 1931A.
Ustilago bromivora (Tul.) F. v. Waldh.	Cunningham, 1924C.

Bromus mollis L.

Claviceps purpurea (Fr.) Tul.	New record.

Bromus sterilis L.

Puccinia elymi West.	Cunningham, 1926A.

Bromus unioloides H. B. K.

Ustilago bromivora (Tul.) F. v. Waldh.	Cunningham, 1924C.

Calendula officinalis L.

Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937	Chamberlain & Taylor, 1938.

Callistephus chinensis Nees.

Botrytis cinerea Pers.	New record.
Fusarium conglutinans Wr. var. *callistephi* Beach.	Cunningham, 1931B.
Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937	Chamberlain & Taylor, 1938.

Caltha novæ-zelandiæ Hook. f.
Aecidium westlandicum G. H. Cunn. .. .. Cunningham, 1928.

Caltha obtusa Cheesem.
Aecidium westlandicum G. H. Cunn. .. .. Cunningham, 1928.

Capsella bursa-pastoris Med.
Cystopus candidus (Pers.) Lev. .. .. .. Cunningham, 1922A.
Plasmodiophora brassicae Woron. .. .. Gibbs, 1932.

Cardamine bilobata Kirk.
Puccinia inornata G. H. Cunn. .. .. .. Cunningham, 1928.

Cardamine heterophylla (Forst. f.) O. E. Schultz.
Puccinia inornata G. H. Cunn. .. .. Cunningham, 1923A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Brien, 1932A.

Carduus lanceolatus L.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Carduus pycnocephalus L.
Puccinia cardui-pycnocephali P. & H. Syd. .. Cunningham, 1923A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Carex appressa R. Br.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1924B.

Carex berggreni Petrie.
Puccinia mania G. H. Cunn. .. .. .. Cunningham, 1930.

Carex breviculmis R. Br.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1931A.

Carex buchanani Berggr.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1923A.

Carex colensoi Boott.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1923A.

Carex dipsacea Berggr.
Farysia nigra G. H. Cunn. .. .. .. Cunningham, 1926A.
Farysia olivacea (DC.) Syd. .. .. .. Cunningham, 1926A.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1923A.

Carex dissita Sol. ex Hook. f.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1931A.

Carex dissita var. **ochrosaccus** Cheesem.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1931A.

Carex gaudichaudiana (Booth) Kunth.
Cintractia caricis (Pers.) Magn. .. .. Cunningham, 1924C.
Puccinia rautahi G. H. Cunn. .. .. .. Cunningham, 1930.

Carex inversa R. Br.
Puccinia maurea G. H. Cunn. .. .. .. Cunningham, 1930.

Carex kirkii Petrie.
Puccinia rautahi G. H. Cunn. .. .. .. Cunningham, 1930.

Carex pumila Thunb.
Puccinia maurea G. H. Cunn. .. .. .. Cunningham, 1930.

Carex pyrenaica Wahl.
Puccinia mania G. H. Cunn. .. .. .. Cunningham, 1930.

Carex resectans Cheesem.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1923A.

Carex solandri Boott.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1931A.

Carex stellulata Good.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1923A.

Carex subdola Boott.
Cintractia caricis (Pers.) Magn. .. .. Cunningham, 1924C.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1931A.

Carex ternaria Forst. f.
Cintractia caricis (Pers.) Magn. .. .. Cunningham, 1924C.
Puccinia caricis (Pers.) Reb. .. .. .. Cunningham, 1923A.

Carex virgata Sol.
Farysia olivacea (DC.) Syd. .. .. .. Cunningham, 1926A.

Carex wakatipu Petrie.
Puccinia mania G. H. Cunn. .. .. .. Cunningham, 1930

Carex wallii Petrie.
Puccinia maurea G. H. Cunn. .. .. .. Cunningham, 1930.

Carica papaya L.
Ascochyta caricae Pat. .. .. .. New record.

Carmichaelia grandiflora Hook. f.
Phomopsis cunninghamii Syd. .. .. .. Sydow, 1924.

Cassinia leptophylla R. Br.
Fomes robustus Karst. .. .. .. Cunningham, 1927C.

Castanea sativa Mill.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.

Celmisia armstrongii Petrie.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia coriacea Hook. f.
Heteropatella eriophila Syd. .. .. .. Sydow, 1924.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1924A.

Celmisia coriacea × longifolia.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1931A.

Celmisia densiflora × prorepens.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1931A.

Celmisia discolor Hook. f.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1924A.

Celmisia glandulosa Hook. f.
Puccinia egmontensis G. H. Cunn. .. .. Cunningham, 1923A.

Celmisia graminifolia Hook. f.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia haastii Hook. f.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1931A.

Celmisia hookeri Ckn.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1924A.

Celmisia incana Hook. f.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1928.

Celmisia incana × discolor.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1928.

Celmisia longifolia Cass.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1924A

Celmisia longifolia var. alpina Kirk.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1924A.

Celmisia lyallii Hook. f.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia lyallii × longifolia.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia lyallii × spectabilis.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia major Cheesem.
Puccinia aorangi G. H. Cunn. .. .. .. Cunningham, 1930.

Celmisia monroi Hook. f.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1931A.

Celmisia novæ-zelandiæ (Buch.) Cheesem.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1928.

Celmisia petiolata Hook. f.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia petiolata × sessiliflora.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1931A.

Celmisia petriei Cheesem.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1931A.

Celmisia prorepens Petrie.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1924A.

Celmisia rigida (Kirk) Ckn.
Puccinia fodiens G. H. Cunn. .. .. .. Cunningham, 1923A.

Celmisia sinclairii Hook. f.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1924A.

Celmisia spectabilis Hook. f.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1931A.
Puccinia fodiens G. H. Cunn. .. .. .. Cunningham, 1924B.

Celmisia spectabilis × coriacea.
Puccinia fodiens G. H. Cunn. .. .. .. Cunningham, 1931A.

Celmisia traversii Hook. f.
Puccinia celmisiae G. H. Cunn. .. .. Cunningham, 1928.

Celmisia viscosa Hook. f.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1928.

Celmisia walkeri Kirk.
Aecidium celmisiae-discoloris G. H. Cunn. .. Cunningham, 1928.

Centaurea cyanus L.
Puccinia cyani Pass. .. .. Cunningham, 1923A.

Cerastium vulgatum L.
Septoria cerastii Rob. & Desm. .. .. Sydow, 1924

Chamæcyparis lawsoniana Parlatore.
Armillaria mellea (Vahl.) Fr. .. .. .. Birch, 1937.
Coryneum cardinale Wagner. .. .. .. Birch, 1933.
Pestalozzia funerea Desm. .. .. .. Birch, 1933.
Phomopsis juniperovora Hahn. .. .. Birch, 1933.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. New record.

Cheiranthus cheiri L.
Peronospora parasitica (Pers.) Tul. .. .. New record.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Brien, 1932A.

Turnip-mosaic (not classified) .. .. .. New record.

Chenopodium album L.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Chrysanthemum indicum L.
Puccinia chrysanthemi Roze. .. .. .. Kirk, 1901.

Chrysanthemum sp. cult.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. New record.

Cichorium intybus L.
Puccinia hieracii (Schum.) H. Mart. .. .. Cunningham, 1931A.

Cineraria sp. cult.
Puccinia distincta McAlp. .. .. .. Cunningham, 1931A.

Cirsium arvense (L.) Scop.
Botrytis cinerea Pers. .. .. New record.
Puccinia obtegens (Link.) Tul. .. .. .. Cunningham, 1923A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Citrullus vulgaris Schrad.
Cercospora melonis Cke. .. .. .. Cunningham, 1922A.
Colletotrichum lagenarium (Pass.) Ell. & Hals. .. Cunningham, 1922A.

Mycosphaerella citrullina (C.O. Sm.) Grossenb. .. Cunningham, 1922A.
Peronoplasmopara cubensis (Berk & Curt.) Clint. .. Cunningham, 1922A.

Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Citrus aurantifolia Swingle.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr. Cunningham, 1925A.

Citrus grandis Osbeck.
Pseudomonas citri Hasse. .. .. .. Reid, 1938B.

Sun-scald (physiological) .. .. .. Cunningham, 1925A.

Citrus limonia Osbeck.
Ascochyta corticola McAlp. .. .. .. Cunningham, 1921C.
Botrytis cinerea Pers. .. .. Cunningham, 1925A.
Fusarium lateritium Nees. var. *fructigenum* (Fr.) Wr. New record.
Gloeosporium limetticolum Clausen. .. .. Cunningham, 1925A.
Glomerella cingulata (Stonemn.) Spauld & V. Schr. Cunningham, 1925A.
Penicillium digitatum (Fr.) Sacc. .. .. Cunningham, 1925A.
Penicillium italicum Wehm. .. .. .. Cunningham, 1925A.
Phomopsis citri Fawc. .. .. .. Cunningham, 1931B.
Phytophthora citrophthora (Smith & Smith) Leon. Boucher, 1912.

Citrus limonia Osbeck.—*continued.*

Rhizopus nigricans Ehrenb.	Cunningham, 1925A.
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.
Sporotrichum citri Butl.	Kirk, 1899.
Pseudomonas citri Hasse.	Reid, 1938B.
Pseudomonas syringae Van Hall.	Reid, 1938A.
Frost-injury (physiological)	Cunningham, 1925A.
Gum-spot (physiological)	New record.
Malformed fruits (physiological)	Cunningham, 1925A.
Peteca (physiological)	New record.

Citrus nobilis Lour.

Gloeosporium limetticolum Clausen.	Cunningham, 1925A.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr.	Cunningham, 1925A.

Citrus sinensis Osb.

Alternaria citri Pierce.	New record.
Botrytis cinerea Pers.	Cunningham, 1925A.
Fusarium lateritium Nees. var. *fructigenum* Wr.	New record.
Gloeosporium limetticolum Clausen	Cunningham, 1925A.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr.	Cunningham, 1925A.
Penicillium digitatum (Fr.) Sacc.	Cunningham, 1925A.
Penicillium italicum Wehm.	Cunningham, 1925A.
Phomopsis citri Fawc.	New record.
Rhizopus nigricans Ehrenb.	Cunningham, 1925A.
Scelerotinia sclerotiorum (Lib.) Mass.	Brien, 1932A.
Pseudomonas citri Hasse.	Reid, 1938B.
Pseudomonas syringae Van Hall.	Reid, 1938A.
Exanthema (physiological)	New record.
Peteca (physiological)	New record.
Sun-scald (physiological)	Cunningham, 1925A.

Citrus sp. (citronelle).

Sporotrichum citri Butl.	New record.
Pseudomonas citri Hasse.	Reid, 1938B.

Citrus sp. (N.Z. Grapefruit).

Alternaria citri Pierce.	Cunningham, 1931B.
Botrytis cinerea Pers.	Cunningham, 1925A.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr.	Cunningham, 1925A.
Penicillium digitatum (Fr.) Sacc.	Cunningham, 1925A.
Penicillium italicum Wehm.	Cunningham, 1925A.
Septoria citri Pass.	New record.
Sporotrichum citri Butl.	Cunningham, 1925A
Pseudomonas citri Hasse.	Reid, 1938B.
Gum-spot (physiological)	New record.
Sun-scald (physiological)	Cunningham, 1925A.

Cladium huttoni T. Kirk.

Tolyposporium littorale G. H. Cunn.	Cunningham, 1926A.

Clematis colensoi Hook. f.

Aecidium octagense Linds.	Cunningham, 1924A.

Clematis fœtida Raoul.

Aecidium octagense Linds.	Cunningham, 1926B.
Puccinia clavata P. & H. Syd.	Cunningham, 1923A

Clematis hexasepala DC.

Puccinia clavata P. & H. Syd.	Cunningham, 1923A.

Clematis indivisa Willd.
Aecidium octagense Linds. .. .. .. Cunningham, 1924A.
Puccinia clavata P. & H. Syd. .. .. Cunningham, 1923A.

Clematis marata Armst.
Aecidium octagense Linds. .. .. .. Cunningham, 1931A.

Coprosma fœtidissima Forst.
Aecidium hupiro G. H. Cunn. .. .. .. Cunningham, 1924A.

Coprosma grandifolia Hook. f.
Puccinia coprosmae Cke. .. .. .. Cunningham, 1923A.

Coprosma lucida Forst. f.
Puccinia coprosmae Cke. .. .. .. Cunningham, 1923A.

Coprosma robusta Raoul.
Mycosphaerella spissa Syd. .. .. .. Sydow, 1924.
Puccinia coprosmae Cke. .. .. .. Cunningham, 1923A.

Coprosma serrulata Hook. f.
Gloeosporidium coprosmae Syd. .. .. Sydow, 1924.

Cotoneaster salicifolia Franch.
Bacillus amylovorus (Burr.) Trev. .. .. New record.

Cratægus oxyacantha L.
Diplodia crataegi West. .. .. .. Sydow, 1924.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.

Bacillus amylovorus (Burr.) Trev. .. .. Waters, 1921.

Cucumis melo L. var. **cantalupensis** Naud.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Cucumber-mosaic—*Cucumis virus* 1 of Smith, 1937 New record.

Cucumis sativus L.
Botrytis cinerea Pers. .. .. New record.
Cercospora melonis Cke. .. .. .. Cunningham, 1922A.
Colletotrichum lagenarium (Pass.) Ell. & Hals. .. Cunningham, 1922A.
Fusarium oxysporum Schl. var. *aurantiacum* Link. New record.
Mycosphaerella citrullina (C.O.Sm.) Grossenb. .. New record.
Peronoplasmopara cubensis (Berk. & Curt.) Clint. .. Cunningham, 1922A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A
Verticillium albo-atrum Reinke and Berth. .. New record.

Cucumber-mosaic—*Cucumis virus* 1 of Smith, 1937 New record.

Cucurbita pepo L.
Cercospora melonis Cke. .. .. .. Kirk, 1907.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Brien, 1932A.

Cucumber-mosaic—*Cucumis virus* 1 of Smith, 1937 New record.

Cupressus lusitanica Mill.
Pestalozzia funerea Desm. .. .. .. Birch, 1933.

Cupressus macrocarpa Hartw.
Botrytis cinerea Pers. .. .. .. Birch, 1937.
Coryneum cardinale Wagn. .. .. .. Birch, 1933.
Pestalozzia funerea Desm. .. .. .. Birch, 1933.
Phomopsis juniperovora Hahn. .. .. Birch, 1933.

Cupressus sempervirens L.
Coryneum cardinale Wagn. .. .. .. Birch, 1933.

Cyclamen persicum Mill.	
Botrytis cinerea Pers.	New record.
Cydonia oblonga Mill.	
Botrytis cinerea Pers.	Cunningham, 1925A.
Fabraea maculata (Lev.) Atk.	Kirk, 1894.
Physalospora cydoniae Arnaud.	Cunningham, 1921B.
Rosellinia radiciperda Mass.	Cunningham, 1925A.
Sclerotinia fructicola (Wint.) Rehm.	Cunningham, 1925A.
Stereum purpureum Pers.	Cunningham, 1921B.
Bacillus amylovorus (Burr.) Trev.	Waters, 1922A.
Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Cunningham, 1921B.
Bitter-pit (physiological)	Cunningham, 1921B.
Cyphomandra betacea Sendt.	
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.
Cytisus proliferus L.	
Stereum purpureum Pers.	Cunningham, 1925A.
Dacrydium cupressinum Soland.	
Fomes applanatus (Pers.) Gillet.	Cunningham, 1927C.
Fomes australis (Fr.) Cke.	Cunningham, 1927C.
Dactylis glomerata L.	
Claviceps purpurea (Fr.) Tul.	Kirk, 1907.
Puccinia graminis Pers.	Cunningham, 1923A.
Uromyces dactylidis Otth.	Cunningham, 1922B.
Ustilago striaeformis (Westend.) Niessl.	Cunningham, 1924C.
Dahlia sp. cult.	
Entyloma dahliae Syd.	New record.
Phyllosticta dahliicola Brun.	New record.
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.
Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937	Chamberlain & Taylor, 1938.
Danthonia buchanani Hook. f.	
Ustilago comburens Ludw.	Cunningham, 1924C.
Danthonia cunninghamii Hook. f.	
Uromyces danthonia McAlp.	Cunningham, 1931A.
Danthonia flavescens Hook. f.	
Claviceps purpurea (Fr.) Tul.	New record.
Uromyces danthoniae McAlp.	Cunningham, 1931A.
Danthonia pilosa R. Br.	
Sphaerodothis calospora Syd.	Sydow, 1924.
Uromyces danthoniae McAlp.	Cunningham, 1931A.
Ustilago readeri Syd.	Cunningham, 1924C.
Danthonia semiannularis R. Br.	
Uromyces danthoniae McAlp.	Cunningham, 1931A.
Ustilago readeri Syd.	Cunningham, 1924C.
Daucus carota L.	
Sclerotinia sclerotiorum (Lib.) Mass.	Cunningham, 1927A.
Delphinium sp. cult.	
Erysiphe polygoni DC.	New record.
Sclerotinia sclerotiorum (Lib.) Mass.	Brien, 1932A.
Sclerotium rolfsii Sacc.	New record.

Deyeuxia forsteri Kunth.
Puccinia elymi West. .. .. Cunningham, 1924A.

Dianella intermedia Endl.
Uredo dianellae Diet. .. .. .. Cunningham, 1924A.

Dianthus caryophyllus L.
Alternaria dianthi Stev. & Hall. .. .. New record.
Fusarium dianthi Prill. & Del. .. .. .. Cunningham, 1931B.
Sclerotinia sclerotiorum Lib. Mass. .. .. Cunningham, 1927A.
Septoria dianthi Desm. .. .. .. New record.
Uromyces dianthi (Pers.) Niessl. .. .. Kirk, 1901.
Sclerotium rolfsii Sacc. .. .. .. New record.

Dichelachne crinita (Forst. f.) Hook. f.
Uredo crinitae G. H. Cunn. .. .. .. Cunningham, 1924A.

Dichondra brevifolia Buch.
Puccinia dichondrae Mont. .. .. .. Cunningham, 1923A.

Dichondra repens Forst.
Puccinia dichondrae Mont. .. .. .. Cunningham, 1923A.

Discaria toumatou Raoul.
Uromyces discariae (Cke.) G. H. Cunn. .. .. Cunningham, 1923A.

Echinopogon ovatus (Forst. f.) Beauv.
Puccinia graminis Pers. .. .. .. Cunningham, 1931A.

Edwardsia microphylla (Ait.) Salisb.
Nectria cinnabarina (Tode) Fr. .. .. Cunningham, 1925A.
Schizophyllum commune Fr. .. .. .. Birch, 1937.
Uromyces edwardsiae G. H. Cunn. .. .. Cunningham, 1924B.

Elæagnus parvifolia Royle.
Plasmodiophora elaeagni Schroet. .. .. Sydow, 1924.

Epilobium alsinoides A. Cunn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1931A.

Epilobium chloræfolium Hausskn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium cockaynianum Petrie.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1928.

Epilobium confertifolium Hook. f.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium glabellum Forst. f.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium hectori Hausskn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium junceum Sol. ex. Spreng.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1924B.

Epilobium linnæoides Hook. f.
Pucciniastrum epilobii (Fcl.) Otth. .. .. Cunningham, 1931A.

Epilobium melanocaulon Hook.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium microphyllum A. Rich.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium microphyllum var. **prostratum** Petrie.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1931A.

Epilobium nerterioides var. **minimum** Ckn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1931A.

Epilobium novæ-zelandiæ Hausskn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium nummularifolium R. Cunn. ex. A. Cunn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Epilobium pedunculare A. Cunn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1931A.

Epilobium pictum Petrie.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1924B.

Epilobium pubens A. Rich.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1924B.
Pucciniastrum epilobii (Fel.) Otth. .. .. Cunningham, 1931A.

Epilobium rostratum Cheesem.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1931A.

Epilobium tasmanicum Hausskn.
Puccinia pulverulenta Grev. .. .. .. Cunningham, 1923A.

Erechtites prenanthoides (A. Rich.) DC.
Puccinia erechtitis McAlp. .. .. .. Cunningham, 1923A.

Eriobotrya japonica Lindl.
Bacillus amylovorus (Burr.) Trev. .. .. Reid, 1930.

Escallonia macrantha Hook & Arn.
Rosellinia radiciperda Mass. .. .. .. New record.

Eucalyptus spp.
Botrytis cinerea Pers. .. .. .. Birch, 1937.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.

Euphorbia glauca Forst. f.
Melampsora novæ-zelandiæ G. H. Cunn. .. Cunningham, 1928.

Euphrasia cuneata Forst. f.
Puccinia euphrasiana G. H. Cunn. .. .. Cunningham, 1924A.

Festuca elatior L.
Claviceps purpurea (Fr.) Tul. .. .. .. Kirk, 1907.
Puccinia graminis Pers. .. .. .. Cunningham, 1923A.
Phyllachora cunninghamii Syd. .. .. Sydow, 1924.

Festuca pratensis Huds.
Puccinia graminis Pers. .. .. .. Cunningham, 1923A.

Fœniculum vulgare Hill.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Forstera bidwillii var. **densifolia** Mildb.
Uredo forsteræ G. H. Cunn. .. .. Cunningham, 1924B.

Fragaria sp. Cult.
Mycosphærella fragariæ (Tul.) Lind. .. .. Kirk, 1894.
Rhizopus nigricans Ehrenb. .. .. .. Cunningham, 1922A.
Sphærotheca humuli (DC.) Burr. .. .. Cunningham, 1922A.

Yellow-edge—*Fragaria virus* 1 of Smith, 1937 .. Chamberlain, 1934B.

Fraxinus excelsior L.
Stereum purpureum Pers. .. .. .. Cunningham, 1925A.

Fuchsia excorticata L. f.
Uredo konini G. H. Cunn. .. .. .. Cunningham, 1928.

Fuchsia perscandens Ckn. & Allan.
Uredo konini G. H. Cunn. .. .. .. Cunningham, 1928.

Gahnia pauciflora T. Kirk.
Farysia endotricha (Berk.) Syd. .. .. Cunningham, 1926A.

Gaillardia aristata Pursh.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. New record.

Gallium umbrosum Sol. ex Forst. f.
Puccinia punctata Link. .. .. .. Cunningham, 1924A.

Gentiana bellidifolia Hook. f.
Puccinia tararua G. H. Cunn. .. .. Cunningham, 1931A.

Gentiana cerina Hook. f.
Puccinia tararua G. H. Cunn. .. .. Cunningham, 1931A.

Gentiana corymbifera Kirk.
Puccinia cockaynei G. H. Cunn. .. .. Cunningham, 1923A.

Gentiana grisebachii Hook. f.
Puccinia cockaynei G. H. Cunn. .. .. Cunningham, 1923A.

Gentiana patula Cheesem.
Puccinia tararua G. H. Cunn. .. .. Cunningham, 1923A.

Gentiana townsonii Cheesem.
Puccinia cockaynei G. H. Cunn. .. .. Cunningham, 1931A.

Geranium dissectum var. **glabratum** Hook. f.
Puccinia geranii-pilosi McAlp... .. .. Cunningham, 1931A.

Geranium microphyllum Hook. f.
Puccinia geranii-pilosi McAlp... .. .. Cunningham, 1931A.

Gladiolus sp. cult.
Penicillium gladioli McCull. & Thom. .. .. New record.
Sclerotium gladioli Mass. .. .. .. New record.
Septoria gladioli Pass. .. .. .. New record.

Glyceria aquatica (L.) Sm.
Puccinia graminis Pers. .. .. .. Cunningham, 1931A.

Gnaphalium luteo-album × **purpureum.**
Puccinia gnaphaliicola P. Henn. .. .. Cunningham, 1930.

Halorrhagis depressa (A. Cunn.) Walp.
Puccinia toa G. H. Cunn. .. .. .. Cunningham, 1930.

Halorrhagis erecta (Murr.) Schindl.
Puccinia toa G. H. Cunn. .. .. .. Cunningham, 1930.

Hebe buxifolia (Benth.) Ckn. & Allan.
Aecidium disciforme McAlp. .. .. .. Cunningham, 1931A.

Hebe elliptica (Forst. f.) Pennell.
Aecidium hebe G. H. Cunn. .. .. .. Cunningham, 1928.

Inset.

Hebe glaucophylla Ckn.
Aecidium disciforme McAlp. .. .. .. Cunningham, 1928.

Hebe macrantha (Hook. f.) Ckn. & Allan.
Aecidium hebe G. H. Cunn. .. .. .. Cunningham, 1928.

Hebe macrantha var. **brachyphylla** (Cheesem.) Ckn. & Allan.
Aecidium hebe G. H. Cunn. .. .. .. Cunningham, 1928.

Hebe traversii (Hook. f.) Ckn. & Allan.
Aecidium disciforme McAlp. .. .. .. Cunningham, 1931A.
Aecidium hebe G. H. Cunn. .. .. .. Cunningham, 1928.

Hebe treadwellii Ckn. & Allan.
Aecidium hebe G. H. Cunn. .. .. .. Cunningham, 1928.

Helianthus annuus L.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Helianthus tuberosus L.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Hierochloæ redolens (Forst. f.) R. Br.
Uredo karetu G. H. Cunn. .. .. .. Cunningham, 1924A.

Histiopteris incisa (Thunb.) J. Sm.
Milesina histiopteridis G. H. Cunn. .. .. Cunningham, 1924A.

Hoheria angustifolia Raoul.
Pholiota adiposa Fr. .. .. Birch, 1937.
Puccinia plagianthi McAlp. .. .. .. Cunningham, 1928.

Hoheria glabrata Sprag. & Summerh.
Puccinia plagianthi McAlp. .. .. .. Cunningham, 1923A.

Hoheria lyalli Hook. f.
Puccinia plagianthi McAlp. .. .. .. Cunningham, 1928.

Hoheria populnea A. Cunn.
Puccinia plagianthi McAlp. .. .. .. Cunningham, 1931A.

Holcus lanatus L.
Claviceps purpurea (Fr.) Tul. .. .. .. New record.
Puccinia coronata Cda. .. .. .. Cunningham, 1922B.
Tilletia holci (Westend.) Rostr. .. .. .. Cunningham, 1924C.
Ustilago striaeformis (Westend.) Niessl. .. .. Cunningham, 1924C.

Holcus mollis L.
Puccinia coronata Cda. .. .. .. Cunningham, 1927B.

Hordeum murinum L.
Claviceps purpurea (Fr.) Tul. .. .. .. New record.

Hordeum vulgare L.
Claviceps purpurea (Fr.) Tul. .. .. .. New record.
Erysiphe graminis DC. .. .. .. Kirk, 1901.
Fusarium culmorum (W. G. Sm.) Sacc. .. .. New record.
Gibberella saubinetii (Mont.) Sacc. .. .. Cunningham, 1922B.
Helminthosporium gramineum Rabenh. .. .. Kirk, 1906.
Puccinia anomala Rostr. .. .. .. Cunningham, 1931A.
Ustilago jensenii Rostr. .. .. .. Kirk, 1906.
Ustilago tritici Jens. .. .. Cunningham, 1924C.

Humulus lupulus L.
Phytophthora cactorum (Leb. & Cohn.) Schroet. .. Brien, 1938.

Hydrocotyle moschata Forst. f.
Puccinia hydrocotyles (Link.) Cke. .. .. Cunningham, 1923A.

Hydrocotyle novæ-zelandiæ DC.
Puccinia hydrocotyles (Link.) Cke. .. .. Cunningham, 1923A.

Hydrocotyle tripartita R. Br. ex A. Rich.
Puccinia hydrocotyles (Link.) Cke. .. .. Cunningham, 1923A.

Hypericum gramineum Forst. f.
Aecidium disseminatum Berk. .. .. .. Cunningham, 1931A.
Melampsora kusanoi Diet. .. .. .. Cunningham, 1924A.

Hypericum japonicum Thunb.
Aecidium disseminatum Berk. .. .. .. Cunningham, 1924A.

Hypochoeris glabra L.
Puccinia hieracii (Schum.) H. Mart. .. .. Cunningham, 1931A.

Juglans regia L.
Pseudomonas juglandis Pierce. .. .. .. Kirk, 1907.

Juncus pallidus R. Br.
Puccinia juncophila Cke. & Mass. .. .. Cunningham, 1931A.

Juncus polyanthemos Buchen.
Puccinia juncophila Cke. & Mass. .. .. Cunningham, 1931A.

Juncus vaginatus R. Br.
Puccinia juncophila Cke. & Mass. .. .. Cunningham, 1923A.

Knightia excelsa R. Br.
Trametes cinnabarina Fr. .. .. .. Birch, 1937.

Lactuca sativa L.
Botrytis cinerea Pers. .. .. New record.
Bremia lactucae Regel. .. .. .. Cunningham, 1922A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937 Chamberlain & Taylor, 1938.

Lagenophora barkeri Kirk.
Puccinia lagenophorae Cke. .. .. .. Cunningham, 1923A.

Lagenophora pumila (Forst. f.) Cheesem.
Puccinia lagenophorae Cke. .. .. .. Cunningham, 1923A.

Lapsana communis L.
Puccinia lapsanae Fcl. .. .. .. Cunningham, 1923A.

Lathyrus odoratus L.
Botrytis cinerea Pers. .. .. New record.
Erysiphe polygoni DC. .. .. .. Kirk, 1907.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Pea-mosaic—*Pisum virus* 2 of Smith, 1937 .. Chamberlain, 1935A.

Lavatera arborea L.
Puccinia malvacearum Bert. .. .. .. Cunningham, 1931A.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Ligustrum vulgare L.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.

Lilium longiflorum Thunb.
Cucumber-mosaic—*Cucumis virus* 1 of Smith, 1937 New record.

Lilium sp. cult.
Botrytis cinerea Pers. .. .. .. New record.

Linum monogynum Forst. f.
Melampsora lini (Ehrenb.) Lev. .. .. Cunningham, 1924A.

Linum monogynum var. **chathamicum** Ckn.
Melampsora lini (Ehrenb.) Lev. .. .. Cunningham, 1924A.

Linum usitatissimum L.
Melampsora lini (Ehrenb.) Lev. .. .. Cunningham, 1927B.
Phlyctaena linicola Speg. .. .. .. Cunningham, 1931B.

Lobelia anceps L. f.
Puccinia aucta Berk. & F. v. M. .. .. Cunningham, 1923A.

Lobelia sp. cult.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. New record.

Lolium multiflorum Lam.
Claviceps purpurea (Fr.) Tul. .. .. .. Kirk, 1907.
Corticium fuciforme (Berk.) Wakef. .. .. Cunningham, 1922B.
Puccinia coronata Corda. .. .. .. Cunningham, 1922B.
Puccinia graminis Pers. .. .. .. Cunningham, 1923A.

Lolium perenne L.
Claviceps purpurea (Fr.) Tul. .. .. .. Kirk, 1907.
Puccinia coronata Corda. .. .. .. Cunningham, 1922B.
Puccinia graminis Pers. .. .. .. Cunningham, 1923A.

Lolium temulentum L.
Puccinia coronata Corda. .. .. .. Cunningham, 1931A.
Puccinia graminis Pers. .. .. .. Cunningham, 1923A.

Lupinus angustifolius L.
Ascochyta pisi Lib. .. .. Curtis, 1923.
Botrytis cinerea Pers. .. .. Curtis, 1923.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Brien, 1932A.

Pea-mosaic—*Pisum virus* 2 of Smith, 1937 .. Chamberlain, 1935A.

Luzula campestris DC.
Puccinia tenuispora McAlp. .. .. .. Cunningham, 1930.

Luzula crinita Hook. f.
Puccinia tenuispora McAlp. .. .. .. Cunningham, 1931A.

Lycopersicum esculentum Mill.
Alternaria solani (Ell. & Mart.) Jones & Grout .. Kirk, 1895.
Botrytis cinerea Pers. .. .. New record.
Cladosporium fulvum Cke. .. .. .. Kirk, 1896.
Corticium vagum Berk. & Curt. .. .. Taylor, 1924.
Fusarium lycopersici Sacc. .. .. .. Kirk, 1906.
Mycosphaerella citrullina (C.O.Sm.) Grossenb. .. Cunningham, 1922A.
Phoma destructiva Plowr. .. .. .. New record.
Phytophthora cryptogea Pethybr. & Laff. .. .. New record.
Phytophthora infestans (Mont.) de Bary .. .. Kirk, 1905.
Pythium ultimum Trow. .. .. .. Brien & Chamberlain, 1936.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.
Septoria lycopersici Speg. .. .. .. Kirk, 1906.
Verticillium albo-atrum Reinke & Berth. .. .. Taylor, 1924.

Aplanobacter michiganense Erw. Smith .. .. Reid, 1938C.

Cucumber-mosaic—*Cucumis virus* 1 of Smith, 1937 Chamberlain, 1934C.
Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937 Chamberlain & Taylor, 1936
Tobacco-mosaic—*Nicotiana virus* 1 of Smith, 1937 Chamberlain, 1934A.
Blossom-end rot (physiological) .. .. Cunningham, 1922A.
Cloudy-fruit (physiological) .. .. .. New record.

Malva rotundifolia L.
Puccinia malvacearum Bert. .. .. .. Cunningham, 1923A.

Malva sylvestris L.
Puccinia malvacearum Bert. .. .. .. Cunningham, 1923A.

Matthiola incana R. Br.
Turnip-mosaic (not classified) .. .. .. New record.

Medicago sativa L.
Peronospora trifoliorum de Bary .. .. Cunningham, 1922B.
Pseudopeziza medicaginis (Lib.) Sacc. .. .. Cunningham, 1922B.
Pyrenopeziza medicaginis Fcl. .. .. .. Cunningham, 1922B.
Sclerotinia trifoliorum Erikss. .. .. .. Cunningham, 1922B.
Uromyces striatus Schroet. .. .. .. Cunningham, 1922B.

Mentha cunninghamii Benth.
Puccinia pseudomenthae G. H. Cunn. .. .. Cunningham, 1930.

Mesembryanthemum edule L.
Cystopus candidus (Pers.) Lev. .. .. New record.

Mespilus germanica L.
Bacillus amylovorus (Burr.) Trev. .. .. Waters, 1921.

Microtis unifolia (Forst. f.) Reichb.
Uromyces microtidis Cke. .. .. .. Cunningham, 1923A.

Morus alba L.
Nectria cinnabarina (Tode) Fr. .. .. Cunningham, 1925A.

Muehlenbeckia australis (Forst. f.) Meisn.
Puccinia tiritea G. H. Cunn. .. .. .. Cunningham, 1923A.

Muehlenbeckia axillaris (Hook. f.) Walp.
Puccinia tiritea G. H. Cunn. .. .. .. Cunningham, 1924B.

Muehlenbeckia axillaris × **ephedrioides.**
Puccinia tiritea G. H. Cunn. .. .. .. Cunningham, 1931A.

Muehlenbeckia complexa (A. Cunn.) Meisn.
Puccinia tiritea G. H. Cunn. .. .. .. Cunningham, 1923A.

Musa sapientum L.
Gloeosporium musarum Cke. & Mass. .. .. Cunningham, 1931B.
Rhizopus arrhizus Fisch. .. .. .. New record.

Myoporum lætum Forst. f.
Aecidium myoporí G. H. Cunn. .. .. Cunningham, 1924A.

Mysotis capitata Hook. f.
Puccinia novo-zelandica Bubak. .. .. Cunningham, 1924A.

Nasturtium wallii Carse.
Puccinia reidii G. H. Cunn. .. .. .. Cunningham, 1923A.

Nicotiana rustica L.
Tobacco-mosaic—*Nicotiana virus* 1 of Smith, 1937 Chamberlain, 1937.

Nicotiana tabacum L.
Macrosporium tabacinum Ell. & Everh. .. Cunningham, 1931B.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Brien, 1932A.

Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937 Taylor & Chamberlain, 1937
Tobacco-mosaic—*Nicotiana virus* 1 of Smith, 1937 Chamberlain, 1934A.

Nothofagus fusca (Hook. f.) Oerst.
Fomes australis (Fr.) Cke. .. .. .. Cunningham, 1927c.
Fomes hemitephrus (Berk.) Cke. .. .. Cunningham, 1927c.
Fomes robustus Karst. .. .. .. Cunningham, 1927c.
Polyporus eucalyptorum Fr. .. .. .. Cunningham, 1927c.

Nothofagus menziesii (Hook. f.) Oerst.
Armillaria mellea (Vahl.) Fr. .. .. .. Birch, 1937.
Cyttaria gunnii Berk. .. .. .. Simpson & Thompson, 1928.
Fomes australis (Fr.) Cke. .. .. .. Cunningham, 1927c.
Fomes hemitephrus (Berk.) Cke. .. .. Birch, 1937.

Nothofagus truncata Col.
Fomes hemitephrus (Berk.) Cke. .. .. Birch, 1937.
Polyporus eucalyptorum Fr. .. .. Cunningham, 1927c.

Nothopanax colensoi Seem.
Placosoma nothopanacis Syd. .. .. .. Sydow, 1924.

Olearia angustifolia Hook. f.
Uredo brownii Syd. .. .. Cunningham, 1928.

Olearia arborescens (Forst. f.) Cke. & Laing.
Aecidium otira G. H. Cunn. .. .. .. Cunningham, 1928.

Olearia avicennæfolia (Raoul) Hook. f.
Puccinia akiraho G. H. Cunn. .. .. Cunningham, 1930.

Olearia colensoi Hook. f.
Uredo tupare G. H. Cunn. .. .. .. Cunningham, 1924A.

Olearia ilicifolia Hook. f.
Puccinia atkinsonii G. H. Cunn. .. .. Cunningham, 1928.

Olearia ilicifolia × **lacunosa.**
Puccinia atkinsonii G. H. Cunn. .. .. Cunningham, 1928.

Olearia lacunosa Hook. f.
Puccinia perlaevis G. H. Cunn. .. .. Cunningham, 1928.

Olearia lacunosa × **arborescens.**
Puccinia atkinsonii G. H. Cunn. .. .. Cunningham, 1923A.

Olearia lyallii Hook. f.
Uredo olearia G. H. Cunn. .. .. . Cunningham, 1924A.

Olearia macrodonta Baker.
Puccinia atkinsonii G. H. Cunn. .. .. Cunningham, 1928.

Olearia moschata Hook. f.
Puccinia moschata G. H. Cunn. .. .. Cunningham, 1930.

Olearia nummularifolia Hook. f.
Puccinia keae G. H. Cunn. .. .. .. Cunningham, 1928.

Olearia paniculata (Forst.) Cheesem.
Puccinia akiraho G. H. Cunn. . .. Cunningham, 1930.

Olearia rani (A. Cunn.) Ckn.
Puccinia atkinsonii G. H. Cunn. .. .. Cunningham, 1931A.

Oreomyrrhis andicola End.
Puccinia raiensis Eug. Mayor. . .. Cunningham, 1927B.

Ourisia macrocarpa Hook. f.
Puccinia pedatissima G. H. Cunn. . .. Cunningham, 1926A.

Ourisia macrophylla Hook.
Puccinia pedatissima G. H. Cunn. .. .. Cunningham, 1923A.

Ourisia mcphersoni Ckn. & Allan.
Puccinia pedatissima G. H. Cunn. .. .. Cunningham, 1931A.

Pachystegia insignis (Hook. f.) Cheesem.
Uredo wharanui G. H. Cunn. .. .. .. Cunningham, 1924A.

Papaver nudicaule L.
Botrytis cinerea Pers. .. .. .. New record.

Spotted-wilt—*Lycopersicum virus* 3 of Smith, 1937 Chamberlain & Taylor, 1938.

Parsonsia capsularis × **heterophylla.**
Caeoma kaiku G. H. Cunn. .. .. .. Cunningham, 1930.

Paspalum dilatatum Poir.
Claviceps paspali Stevens & Hall. .. .. New record.
Fusarium culmorum (W. G. Sm.) Sacc. .. New record.

Passiflora edulis Sims.
Alternaria passiflorae Simmonds .. .. New record.
Botrytis cinerea Pers. .. .. .. New record.
Fusarium avenaceum (Fr.) Sacc. .. .. New record.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr. New record.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Phytomonas passiflorae W. D. Reid .. .. Reid, 1938D.

Pastinaca sativa L.
Phyllachora pastinaceae (West.) Rostr. .. .. Cunningham, 1931B.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Pelargonium hortorum Bailey.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Pelargonium inodorum Willd.
Puccinia morrisoni McAlp. .. .. .. Cunningham, 1923A.

Pelargonium zonale l'Herit.
Puccinia pelargonii-zonalis Doidge .. .. Cunningham, 1923A.

Persea gratissima Gærtn.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr. New record.

Phalaris tuberosa L.
Puccinia graminis Pers. .. .. .. Cunningham, 1931A.

Phaseolus multiflorus Willd.
Phytomonas medicaginis (Sack.) Bergey *et al.* .. Reid, 1931.

Bean-mosaic—*Phaseolus virus* 1 of Smith, 1937 .. New record.

Phaseolus vulgaris L.
Botrytis cinerea Pers. .. .. .. New record.
Colletotrichum lindemuthianum (Sacc. & Magn.) Bri. & Cav. .. .. Kirk, 1905.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Phytomonas medicaginis (Sack.) Bergey *et al.* .. Reid, 1931.

Bean-mosaic—*Phaseolus virus* 1 of Smith, 1937 .. New record.

Phlox drummondii Hook.
Septoria drummondii Ell. & Everh. .. .. New record.

Phormium colensoi Hook. f.
Uredo phormii G. H. Cunn. .. .. .. Cunningham, 1924A.

Phormium tenax Forst.
Uredo phormii G. H. Cunn. .. .. .. Cunningham, 1924A.

Physalis peruviana L.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.
Stereum purpureum Pers. .. .. .. Cunningham, 1925A.

Tobacco-mosaic—*Nicotiana virus* 1 of Smith, 1937 Chamberlain, 1934A.

Pinus banksiana Lamb.
Hypoderma amplum L. .. .. .. Birch, 1937.

Pinus canariensis C. Smith.
Phomopsis strobi Syd. .. .. .. Birch, 1935.

Pinus muricata Don.
Armillaria mellea (Vahl.) Fr. .. .. .. Birch, 1937.
Phomopsis strobi Syd. .. .. .. Birch, 1935.

Pinus contorta var. **murrayana** Engel.
Armillaria mellea (Vahl.) Fr. .. .. .. Birch, 1937.

Pinus ponderosa Douglas.
Armillaria mellea (Vahl.) Fr. .. .. .. Birch, 1937.

Pinus radiata Don.
Armillaria mellea (Vahl.) Fr. .. .. .. Birch, 1937.
Botrytis cinerea Pers. .. .. .. Birch, 1937.
Pestalozzia funerea Desm. .. .. .. Birch, 1933.
Phomopsis strobi Syd. .. .. .. Birch, 1935.

Pinus spp.
Diplodia pinea (Desm.) Kickx. .. .. Birch, 1936.
Nectria cinnabarina (Tode) Fr. .. .. Cunningham, 1925A.

Pinus strobus L.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.

Pisum sativum L.
Ascochyta pinodella L. K. Jones .. .. New record.
Ascochyta pisi Lib. .. .. Kirk, 1906.
Botrytis cinerea Pers. .. .. New record.
Erysiphe polygoni DC. .. .. .. Kirk, 1901.
Mycosphaerella pinodes (Berk. & Blox.) Niessl. .. Cunningham, 1922A.
Peronospora viciae (Berk.) de Bary .. .. Kirk, 1906.
Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Pea-mosaic—*Pisum virus* 2 of Smith, 1937 .. Chamberlain, 1935A.

Pisum sativum L. var. **arvense** Poir.
Pea-mosaic—*Pisum virus* 2 of Smith, 1937 .. Chamberlain, 1936B.

Plagianthus betulinus A. Cunn.
Puccinia plagianthi McAlp. .. .. .. Cunningham, 1923A.

Plantago brownii Rapin.
Aecidium plantaginis-variae McAlp. .. .. Cunningham, 1928.

Plantago spathulata Hook. f.
Aecidium plantaginis-variae McAlp. .. .. Cunningham, 1924A.

Platanus orientalis L.
Gloeosporium nervisequum Sacc. .. .. New record.

Poa anceps Forst.
Uromyces otakou G. H. Cunn. .. .. .. Cunningham, 1931A.

Poa annua L.
Puccinia poarum Niels. .. .. Cunningham, 1922B.

Poa aquatica L.
Puccinia graminis Pers. .. .. Cunningham, 1924B.

Poa cæspitosa Forst. f.
Uromyces otakou G. H. Cunn. .. .. .. Cunningham, 1923A.

Poa litorosa Cheesem.
Uromyces otakou G. H. Cunn. .. .. .. Cunningham, 1931A.

Poa pratensis L.
Puccinia poarum Niels. .. .. .. Cunningham, 1922B.

Podocarpus halii T. Kirk.
Corynelia tropica (Auersw. & Rabenh.) Starb. .. Birch, 1937.

Podocarpus spicatus R. Br.
Fomes applanatus (Pers.) Gillet. .. .. Cunningham, 1927C.
Fomes australis (Fr.) Cke. .. .. .. Cunningham, 1927C.

Podocarpus totara Don.
Corynelia tropica (Auersw. & Rabenh.) .. .. Birch, 1937.

Polygonum aviculare L.
Uromyces polygoni-avicularis (Pers.) Ramsb. .. Cunningham, 1923A.

Polygonum serrulatum Lag.
Spacelotheca hydropiperis (Schum.) de Bary .. Cunningham, 1924C.

Populus eugenei Simon-Louis.
Taphrina aurea (Pers.) Fr. .. .. .. Birch, 1937.

Populus nigra L.
Cytospora chrysosperma (Pers.) Fr. .. .. Birch, 1937.
Stereum purpureum Pers. .. .. .. Cunningham, 1921B.

Populus tremula L.
Taphrina aurea (Pers.) Fr. .. .. .. Birch, 1937.

Pratia angulata (Forst. f.) Hook. f.
Aecidium microstomum Berk. .. .. .. Cunningham, 1928.

Pratia macrodon Hook. f.
Aecidium microstomum Berk. .. .. .. Cunningham, 1928.

Prunus armeniaca L.
Cladosporium carpophilum Thuem. .. .. Kirk, 1904.
Clasterosporium carpophilum (Lev.) Aderh. .. Cunningham, 1921B.
Nectria cinnabarina (Tode) Fr. .. .. Kirk, 1905.
Phyllosticta prunicola Sacc. .. .. .. Blackmore, 1894.
Puccinia pruni-spinosae Pers. .. .. .. Kirk, 1897.
Rhizopus arrhizus Fisch. .. .. .. Cunningham, 1925A.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.
Sclerotinia fructicola (Wint.) Rehm. .. .. Kirk, 1905.
Stereum purpureum Pers. .. .. .. Cunningham, 1921B.
Taphrina deformans (Fcl.) Tul. .. .. Kirk, 1894.
Valsa leucostoma (Pers.) Fr. .. .. .. Cunningham, 1920.

Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B. .. .. Kirk, 1906.

Gummosis (physiological) .. .. .. Cunningham, 1925A.
Sour-sap (physiological) .. .. .. Cockayne, 1915.

Prunus cerasus L.

Clasterosporium carpophilum (Lev.) Aderh. ..	Cunningham, 1921B.
Nectria cinnabarina (Tode) Fr.	Cunningham, 1921B.
Phyllosticta prunicola Sacc.	Cunningham, 1925A.
Podosphaera oxyacanthae De Bary	Cunningham, 1921B.
Puccinia pruni-spinosae Pers.	Cunningham, 1921B.
Rosellinia radiciperda Mass.	Cunningham, 1925A.
Sclerotinia fructicola (Wint.) Rehm.	Kirk, 1905.
Stereum purpureum Pers.	Cunningham, 1921B.
Taphrina minor Sadeb.	Cunningham, 1921B.
Valsa leucostoma (Pers.) Fr.	Cunningham, 1921B.
Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Cunningham, 1921B.
Gummosis (physiological)	Cunningham, 1925A.
Sour-sap (physiological)	Cunningham, 1925A.

Prunus communis Fritsch.

Clasterosporium carpophilum (Lev.) Aderh. ..	Cunningham, 1921B.
Nectria cinnabarina (Tode) Fr.	Cunningham, 1921B.
Phyllosticta prunicola Sacc.	Cunningham, 1925A.
Puccinia pruni-spinosae Pers.	Cunningham, 1921B.
Stereum purpureum Pers.	Cunningham, 1921B.
Taphrina deformans (Fcl.) Tul.	Cunningham, 1921B.
Valsa leucostoma (Pers.) Fr.	Cunningham, 1921B.
Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Cunningham, 1921B.
Gummosis (physiological)	Cunningham, 1925A.

Prunus domestica L.

Clasterosporium carpophilum (Lev.) Aderh. ..	Cunningham, 1921B.
Nectria cinnabarina (Tode) Fr.	Cunningham, 1921B.
Phyllosticta prunicola Sacc.	Kirk, 1895.
Puccinia pruni-spinosae Pers.	Kirk, 1897.
Rosellinia radiciperda Mass.	Cunningham, 1925A.
Sclerotinia fructicola (Wint.) Rehm.	Kirk, 1905.
Stereum purpureum Pers.	Blackmore, 1894.
Taphrina pruni (Fcl.) Tul.	Cunningham, 1921B.
Valsa leucostoma (Pers.) Fr.	Cunningham, 1921B.
Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Kirk, 1906.
Gummosis (physiological)	Cunningham, 1925A.
Sour-sap (physiological)	Cockayne, 1915.

Prunus persica Sieb. & Zucc.

Botrytis cinerea Pers.	Cunningham, 1925A.
Cladosporium carpophilum Thuem.	Cunningham, 1921B.
Clasterosporium carpophilum (Lev.) Aderh. ..	Boucher, 1901.
Nectria cinnabarina (Tode) Fr.	Cunningham, 1920.
Penicillium expansum Link.	Cunningham, 1925A.
Phoma persicae Sacc.	Cunningham, 1931B.
Phyllosticta prunicola Sacc.	Kirk, 1895.
Polyporus versicolor (L.) Fr.	Cunningham, 1927C.
Puccinia pruni-spinosae Pers.	Cunningham, 1921B.
Rhizopus arrhizus Fisch.	Cunningham, 1925A.
Rosellinia radiciperda Mass.	Cunningham, 1925A.
Sclerotinia fructicola (Wint.) Rehm.	Kirk, 1905.
Sphaerotheca pannosa Lev.	Cunningham, 1925A.
Stereum purpureum Pers.	Blackmore, 1894.
Taphrina deformans (Fcl.) Tul.	Kirk, 1894.
Valsa leucostoma (Pers.) Fr.	Cunningham, 1920.

Prunus persica Sieb. & Zucc.—*continued.*

Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Boucher, 1900.
Gummosis (physiological)	Cunningham, 1925A.
Sour-sap (physiological)	Cunningham, 1925A.

Pseudotsuga taxifolia Brit.

Phomopsis strobi Syd.	Birch, 1935.

Pyracantha angustifolia Schneid.

Bacillus amylovorus (Burr.) Trev.	Reid, 1930.

Pyrus communis L.

Botrytis cinerea Pers.	Cunningham, 1925A.
Fabraea maculata (Lev.) Atk.	Kirk, 1894.
Gloeosporium perennans Zeller & Childs. ..	Brien, 1932B.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr.	Cunningham, 1921B.
Penicillium expansum Link.	Cunningham, 1925A.
Penicillium italicum Wehm.	Neill, 1937.
Physalospora cydoniae Arnaud.	Cunningham, 1921B.
Rhizopus nigricans Ehr.	Cunningham, 1925A.
Rosellinia radiciperda Mass.	Cunningham, 1921B.
Sclerotinia fructicola (Wint.) Rehm.	Kirk, 1905.
Sclerotinia sclerotiorum (Lib.) Mass.	Brien, 1932A.
Stereum purpureum Pers.	Cunningham, 1921B.
Venturia pirina Aderh.	Kirk, 1906.
Bacillus amylovorus (Burr.) Trev.	Waters, 1921.
Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Cunningham, 1921B.
Bitter-pit (physiological)	Cunningham, 1921B.
Sour-sap (physiological)	Cockayne, 1915.
Stag-head (physiological)	Cunningham, 1925A.
Sun-scald (physiological)	Cunningham, 1925A.

Pyrus malus L.

Alternaria tenuis Nees.	Brien, 1934.
Armillaria mellea (Vahl.) Fr.	New record.
Botrytis cinerea Pers.	Cunningham, 1925A.
Coniothecium chomatosporum Corda.	Kirk, 1907.
Diplodia griffoni (Griff. & Maubl.) Sacc. & Trav. ..	Cunningham, 1923B.
Fusarium lateritium Nees. var. *fructigenum* (Fr.) Wollenw.	Brien, 1934.
Gloeosporium perennans Zeller & Childs. ..	Brien, 1932B.
Glomerella cingulata (Stonemn.) Spauld. & V. Schr.	Kirk, 1906.
Nectria cinnabarina (Tode) Fr.	Cunningham, 1925A.
Nectria galligena Bres.	Cunningham, 1925B.
Neofabraea malicorticis (Cordl.) Jack.	Brien, 1934.
Penicillium expansum Link.	Cunningham, 1925A.
Phoma pomi Passer.	Cunningham, 1921B.
Phyllosticta pirina Sacc.	Cunningham, 1925A.
Physalospora cydoniae Arnaud.	Kirk, 1907.
Podosphaera leucotricha (Ell. & Ev.) Salm. ..	Blackmore, 1901.
Polyporus purpureus var. *verus* Horne... ..	Brien, 1934.
Rhizopus nigricans Ehr.	Cunningham, 1925A.
Rosellinia radiciperda Mass.	Cunningham, 1921B.
Sclerotinia fructicola (Wint.) Rehm.	Kirk, 1905.
Sclerotinia sclerotiorum (Lib.) Mass.	Brien, 1932A.
Stereum purpureum Pers.	Blackmore, 1894.
Trichothecium roseum Link.	Cunningham, 1925A.
Vaisa leucostoma (Pers.) Fr.	Cunningham, 1925A.
Venturia inaequalis (Cke.) Aderh.	Kirk, 1894.

Pyrus malus L.—*continued.*

Bacillus amylovorus (Burr.) Trev.	Waters, 1922A.
Phytomonas tumefaciens (Sm. & Townsd.) Comm. S.A.B.	Kirk, 1906.
Apple-scald (physiological)	Cunningham, 1925A.
Bitter-pit (physiological)	Kirk, 1898.
Corky-pit (physiological)	Rigg & Tiller, 1927.
Flesh-collapse (physiological)	Waters, 1922B.
Glassy-core (physiological)	Cunningham, 1921B.
Jonathan spot (physiological)	Cunningham, 1925A.
Sour-sap (physiological)	Cockayne, 1915.
Sun-scald (physiological)	Cunningham, 1925A.

Quercus Robur L.

Nectria cinnabarina (Tode) Fr.	Cunningham, 1925A.

Ranunculus depressus Kirk.

Aecidium ranunculi-depressus G. H. Cunn. ..	Cunningham, 1930.

Ranunculus enysii Kirk.

Puccinia foyana G. H. Cunn.	Cunningham, 1924A.

Ranunculus geraniifoliis Hook. f.

Aecidium ranunculi-insignis G. H. Cunn. ..	Cunningham, 1930.

Ranunculus insignis Hook. f.

Aecidium ranunculi-insignis G. H. Cunn. ..	Cunningham, 1930.
Tuburcinia anemones (Pers.) Liro.	Cunningham, 1926A.

Ranunculus lappaceus Smith.

Puccinia contegens G. H. Cunn.	Cunningham, 1923A.

Ranunculus lappaceus var. **villosus** Kirk.

Puccinia contegens G. H. Cunn.	Cunningham, 1931A.

Ranunculus lyallii Hook. f.

Aecidium ranunculi-lyallii G. H. Cunn.	Cunningham, 1930.

Ranunculus monroi Hook. f.

Aecidium ranunculi-monroi G. H. Cunn.	Cunningham, 1930.

Ranunculus multiscapus Hook. f.

Puccinia contegens G. H. Cunn.	Cunningham, 1923A.

Ranunculus nivicola Hook.

Aecidium ranunculi-insignis G. H. Cunn. ..	Cunningham, 1930.

Ranunculus pachyrrhizus Hook. f.

Aecidium ranunculi-insignis G. H. Cunn. ..	Cunningham, 1930.

Ranunculus repens L.

Uromyces dactylidis Otth.	Cunningham, 1931A.

Raphanus sativus L.

Sclerotinia sclerotiorum (Lib.) Mass.	Brien, 1932A.

Rhagodia nutans R. Br.

Uredo rhagodiae Cke. & Mass.	Cunningham, 1924A.

Rhododendron sp. Cult.

Chrysomyxa rhododendri (DC.) de Bary	Cunningham, 1926A.
Exobasidium vaccinii (Fcl.) Woron.	New record.

Ribes grossularia L.

Botryosphaeria ribis Grossenb. & Dugg. .. .. Cunningham, 1922A.
Botrytis cinerea Pers. .. .. .. New record.
Cercospora angulata Wint. .. .. .. Cunningham, 1922A.
Microsphaera grossulariae (Wallr.) Lev. .. .. Cunningham, 1922A.
Mycosphaerella grossulariae (Fr.) Lind. .. .. Cunningham, 1922A.
Pseudopeziza ribis Kleb. .. .. .. Cunningham, 1922A.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.
Stereum purpureum Pers. .. .. .. Cunningham, 1922A.

Ribes vulgare Lam. & **R. Nigrum** L.

Botryosphaeria ribis Grossenb. & Dugg. .. .. Cunningham, 1922A
Botrytis cinerea Pers. .. .. .. New record.
Cercospora angulata Wint. .. .. .. Cunningham, 1922A.
Mycosphaerella grossulariae (Fr.) Lind. .. .. Cunningham, 1922A.
Nectria cinnabarina (Tode) Fr. .. .. .. Cunningham, 1925A.
Pseudopeziza ribis Kleb. .. .. .. Cunningham, 1922A.
Rosellinia radiciperda Mass. .. .. .. Cunningham, 1925A.
Stereum purpureum Pers. .. .. .. Cunningham, 1922A.

Rosa eglanteria Mill.

Phragmidium mucronatum (Fr.) Schlecht. .. Cunningham, 1924A.

Rosa sp. cult.

Botrytis cinerea Pers. .. .. New record.
Phragmidium mucronatum (Fr.) Schlecht. .. Cunningham, 1924A.
Sphaerotheca pannosa (Wallr.) Lev. .. .. Kirk, 1905.

Rostkovia gracilis Hook. f.

Puccinia arnaudensis G. H. Cunn. .. .. Cunningham, 1928.

Rubus australis Forst. f.

Hamaspora australis G. H. Cunn. .. .. Cunningham, 1930.

Rubus fruticosus L.

Kuehneola albida (Kuehn) Magn. .. .. Cunningham, 1926A.
Leptosphaeria coniothyrium (Fcl.) Sacc. .. .. Cunningham, 1922A.
Septoria rubi Westd. .. .. Cunningham, 1922A.

Rubus idæus L.

Armillaria mellea (Vahl.) Fr. .. .. .. New record.
Hypholoma fasciculare Fr. .. .. .. Kirk, 1903.
Leptosphaeria coniothyrium (Fcl.) Sacc. .. .. Cunningham, 1922A.
Septoria rubi Westd. .. .. Cunningham, 1922A.

Rubus loganobaccus Bailey.

Botrytis cinerea Pers. .. .. New record.
Kuehneola albida (Kuehn) Magn. .. .. Cunningham, 1931A.
Leptosphaeria coniothyrium (Fcl.) Sacc. .. .. Cunningham, 1922A.
Plectodiscella veneta Burkh. .. .. .. Cunningham, 1922A.
Septoria rubi Westd. .. .. Cunningham, 1922A.

Rubus schmidelioides A. Cunn.

Hamaspora australis G. H. Cunn. .. .. Cunningham, 1930.

Rubus schmidelioides var. **coloratus** Kirk.

Hamaspora australis G. H. Cunn. .. .. Cunningham, 1930.

Rubus schmidelioides × **australis.**

Hamaspora australis G. H. Cunn. .. .. Cunningham, 1927B.

Rumex crispus L.

Sclerotinia sclerotiorum (Lib.) Mass. .. .. Cunningham, 1927A.

Rumex flexuosus Sol. ex Forst. f.

Puccinia kirkii G. H. Cunn. .. .. .. Cunningham, 1923A.

Rumex neglectus Kirk.
Puccinia kirkii G. H. Cunn. .. .. .. Cunningham, 1923A.

Salicornia australis Sol. ex Forst. f.
Uredo salicorniae G. H. Cunn. .. .. .. Cunningham, 1930.

Salix fragilis L.
Stereum purpureum Pers. .. .. .. Cunningham, 1921B.

Schizeilema trifoliatum (Hook. f.) Domin.
Uromyces azorellae Cke. .. .. .. Cunningham, 1924A.

Schœnus carsei Cheesem.
Sorosporium solidum (Berk.) McAlp. .. .. Cunningham, 1924C.

Schœnus pauciflorus Hook. f.
Cintractia schoenus G. H. Cunn. .. .. Cunningham, 1928.
Puccinia schoenus G. H. Cunn. .. .. Cunningham, 1930.

Scirpus inundatus Poir.
Uredo scirpi-nodosi McAlp. .. .. .. Cunningham, 1924A.

Scirpus nodosus Rottb.
Sorosporium neillii G. H. Cunn. .. .. Cunningham, 1924C.

Scirpus prolifer Rottb.
Uredo scirpi-nodosi McAlp. .. .. .. Cunningham, 1931A.

Scirpus sulcatus Thouars.
Uredo scirpi-nodosi McAlp. .. .. .. Cunningham, 1926B.

Scirpus sulcatus var. **distigmatosa** Clarke.
Uredo scirpi-nodosi McAlp. .. .. .. Cunningham, 1931A.

Secale cereale L.
Puccinia elymi West. .. .. Cunningham, 1924A.

Selliera radicans Cav.
Uromyces scaevolae G. H. Cunn. .. .. Cunningham, 1930.
Uromyces sellieriae G. H. Cunn. .. .. Cunningham, 1930.

Senecio adamsii Cheesem.
Uredo cheesemanii G. H. Cunn... .. .. Cunningham, 1928.

Senecio aquaticus Hill.
Puccinia erechtitis McAlp. .. .. .. Cunningham, 1931A.

Senecio bellidioides Hook. f.
Puccinia pounamu G. H. Cunn. .. .. Cunningham, 1928.

Senecio bidwillii Hook. f.
Puccinia hectorensis G. H. Cunn. .. .. Cunningham, 1923A.

Senecio eleagnifolius Hook. f.
Puccinia hectorensis G. H. Cunn. .. .. Cunningham, 1928.

Senecio lagopus Raoul.
Puccinia distincta McAlp. .. .. .. Cunningham, 1931A.

Senecio lautus Forst. f.
Puccinia erechtitis McAlp. .. .. .. Cunningham, 1931A.

Senecio southlandicus Ckn.
Puccinia pounamu G. H. Cunn. .. .. Cunningham, 1923A.

Senecio viridis Kirk.

Puccinia hectorensis G. H. Cunn.	Cunningham, 1928.

Senecio vulgaris L.

Puccinia erechtitis McAlp.	Cunningham, 1931A.

Silybum marianum L.

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